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## Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files - [ ] Task Order 5

DATE: 28 November 1958

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FROM : [ ]

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SUBJECT: Radio Circuit Development

1. On 19 November 1958 a visit was made to [ ] to discuss the maintenance aspects of the Transmitter and Receiver developed under this project. Persons present for discussions were:

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[ ]

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[ ] - OC-E/R+D-EP

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2. The transmitter and receiver was constructed as test vehicles to demonstrate the components and circuitry developed under the subject project. In an attempt to evaluate the prototype equipments, the R+D Laboratory noted several malfunctions. The receiver has spurious oscillations and the transmitter did not track properly, thus preventing proper evaluation of the equipment. [ ] accepted the receiver last month for maintenance and returned it to the writer during this trip. In returning the receiver to the R+D Laboratory, the tests taken [ ] were also submitted to our laboratory.

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3. During this trip [ ] was asked to repair the mechanically misaligned transmitter tuning capacitor (5 gang unit) so as to provide proper tracking of the equipment. [ ] stated that they would accept this equipment for repair and asked that the receiver be turned over to their Washington representative for retransmission [ ]

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4. [ ] was questioned as to what [ ] could offer in the way of a continuing component and circuit development program. [ ] stated that there were two lines of thought; one is the continuation of the present development program [ ] would attempt to improve those components developed under Task Order 5, and the second is a sky-blue approach. Here the term microminiaturization was used, whereby a circuit or component would be developed to perform more than one function. [ ] visualized a semiconductor, that by its configuration would act as a filter and also because of the material being pulsed in some manner along its length, possibly acting as a amplifier. He hastened to say that such a development is hazardous in that the possibility existed that nothing of value may be accomplished. A letter will be submitted to [ ] briefly outlining what [ ] can accomplish in this field.

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